## Claims

## Amendments to the Claims:

The claims are not amended with this response but are restated herewith

## Listing of Claims:

- 1. 27. [WITHDRAWN]
- 28. [ORIGINAL] A system for treating mucosal tissue in an esophagus, said system comprising:

an elongated member; an energy delivery structure deployable from the elongated member and adapted to deliver energy to at least a portion of a circumferential section of the mucosal lining of the esophagus; and

means for delivering energy through the delivery structure under conditions selected to initiate regrowth of a mucosal layer without substantial injury to a submucosal layer underlying the mucosal layer.

- 29. [ORIGINAL] A system as in claim 28, wherein the energy delivery structure comprises an expandable structure deployable from the elongated member.
- 30. [ORIGINAL] A system as in claim 29, wherein the expandable structure comprises an expandable balloon.
- 31. [ORIGINAL] A system as in claim 30, wherein the balloon is non-distensible and dimensionally stable.
- 32. [ORIGINAL] A system as in claim 30, wherein the balloon is elastic.
- 33. [ORIGINAL] A system as in any of claims 28 to 32, wherein the energy delivery structure further comprises an electrode array.
- 34. [ORIGINAL] A system as in claim 33, wherein the electrode array comprises bipolar electrode pairs formed over at least a portion of the outer surface of the balloon, wherein the spacing between the electrodes is no more than 3 mm.
- 35. [ORIGINAL] A system as in claim 34, wherein the electrodes are aligned axially on the balloon.
- 36. [ORIGINAL] A system as in claim 34, wherein the electrodes are aligned circumferentially over the balloon.

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- 37. [ORIGINAL] A system as in claim 33, wherein the balloon includes electrodes of a common polarity formed over at least a portion of its exterior surface.
- 38. [ORIGINAL] A system as in claim 33, wherein the balloon includes electrodes of a common polarity formed over at least a portion of its inner surface.
- 39. [ORIGINAL] A system as in any of claims 30 to 32, wherein the balloon is inflatable with a conductive medium to form a monopolar electrode.
- 40. [ORIGINAL] A system as in claim 29, wherein the expandable structure comprises a frame deployable from the elongated member and an electrode array formed over at least a portion of the frame.
- 41. [ORIGINAL] A system as in claim 40, wherein the frame comprises an arcuate surface which carries the electrodes to engage a partial section of the circumference of the esophagus.
- 42. [ORIGINAL] A system as in claim 41, wherein the frame comprises two oppositely facing arcuate surfaces.
- 43. [ORIGINAL] A system as in claim 28, wherein the energy delivery structure comprises a heating structure.
- 44. [ORIGINAL] A system as in claim 43, wherein the heating structure comprises a radiation heat source.
- 45. [ORIGINAL] A system as in claim 44, wherein the energy delivery structure further comprises a pair of expandable centering elements disposed distally and proximally of the radiation heat source.
- 46. [ORIGINAL] A system as in any one of claims 43 to 45, wherein the radiation heat source is a filament, spherical radiator, cylindrical radiator, or polygonal radiator.
- 47. [ORIGINAL] A system as in claim 28 wherein the energy delivery means comprises a photonic source.
- 48. [ORIGINAL] A system as in claim 28, wherein the energy delivery means comprises a radiofrequency power supply.
- 49. [ORIGINAL] A system as in claim 48, wherein the radiofrequency power supply is adaptable to deliver an energy dosage in the range from 1 J/cm<sup>2</sup> to 50 J/cm<sup>2</sup> over a time period less than 5 seconds.